





STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL & GAS DIVISION

Oil and Gas DivisionDEPT. OF MINE

RECORD 7 WELL

Quadrangle Elmwood				
93				
Permit	No.MAS-0221			

Rotary X	Oil
Cable	Gas_X
Recycling	Comb
Water Flood	Storage
Disposal	: -

Perimi No. <u>PIAS - 02.2.1</u>			Disposal	(Kind)
Company Kaiser Exploration and Mining Compan Address P. O. Box 8, Ravenswood, WV 26164 Farm Charlie Pickens, et al Acres 397.49	Y Casing and Tubing	Used in Drilling	Left in Well	Cernent fill up Cu. ft. (Sks.)
Location (waters) Sapsucker Run Well No. KEM. #33 Elev. 902 District Union County Mason	Size 20-16 Cond.			**************************************
The surface of tract is owned in fee by	13-10" 10 3/4' 9 5/8 8 5/8	'244' (KB)	244'(KB)	125 sks class A 3% calcium cloride (to surface)
Mineral rights are owned by <u>Charlie Pickens</u> , et al Address <u>Leon</u> , <u>WV</u>	5 1/2	2643'(KB))165 sks (1500' fillup)
Drilling Commenced 6/4/80 Drilling Completed 6/14/80 Initial open flow 25 MCFD cu. ft. bbls.	4 1/2 3 2	4865'(KB)	4865'(KB)225 sks (2500' fillup)
Final production 500 cu. ft. per day bbls. Well open 20 hrs. before test 1750 RP. Well treatment details:	Liners Used			
28% HCL acid in hole; perforated Oriskany the holes51" diameter. 3 1/2" glass jets; hy and 30,000# 20/40 sand. 200,000 SCF of nitrayerage pressure of 3900 psig; instantaneous	<u>ydrofractured</u> rogen at an a	383' (K.B.) I zone with overage rat), 4 hole n 30,000# te of 22	80/100 sand BPM at an
Coal was encountered at Feet_		5_@ Inches		
Fresh water Feet Producing Sand_Oriskany_sandstone	Salt W	Vater 4876	383' (K.B	_ Feet

Formation Color Hard of Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Soil Sand Siltstone Shale Sand Red Rock Siltstone & Shale Sand Siltstone Sand Shale Siltstone Sand	0 4 56 172 182 276 483 586 594 647 657 717 756 764 963 968 1020 1050 1217 1336	4 56 172 182 276 483 586 594 647 657 717 756 764 963 968 1020 1050 1217 1336 1363	Tops Franks = 91
Shale Sand Siltstone	1363 1375 1445	1303 1375 1445 1488	The second secon

(over)

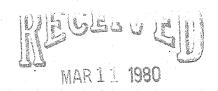
^{*} Indicates Electric Log tops in the remarks section.

APPROVED September 12, 1080



THE DEPARTMENT OF MINES,





Oil and Gas Division

OIL & GAS DIVISION DEPT. OF MINE

OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE February 28, 1980
face Owner D. Dallas & Rebecca Kayser	Company Kaiser Exploration and Mining Company
dress Pt. Pleasant, WV 25550	Address P. O. Box 8, Ravenswood, WV 26164
neral Owner Charlie Pickens, et al	Farm Charlie Pickens, et al Acres 397.49
dress Leon, WV	Location (waters) Sapsucker Run
al Owner Union Carbide Corporation	Well No. KEM 33 Elevation 902
dress 32 Sanderson Road, Clendenin, WV	District Union County Mason
al Operator None	Quadrangle Elmwood
dress None	
THIS PERMIT MUST BE POSTED AT THE WELL SIT	
All provisions being in accordance with Chapter 25 of the W. Va. Code, the location is hereby approve for drilling. This permit shall expire operations have not commenced by 11-17-80 Deputy Director - Oil & Gas Division	TNCDECTOR
NTLEMEN:	
The undersigned well operator is entitled to drill upo	on the above named farm or tract of land for oil and gas, having fee
thereto, (or as the case may be) under grant or le	ase dated May 26 10 78 L. Charlie Pickens
t al made to Kaiser Exploration	and Mining Co day of June
79, in Mason County, Book 45	
NEW WELLDRILL DEEPER	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRI	LLED BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engin	
been notified as of the above date.	eer or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are her nake by Section 3 of the Code, must be received by,	reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were maile	d by registered mail, or delivered to the above named coal operators
ACE CIRVIT CODIDE OF ALL	Very truly yours,
ASE SUBMIT COPIES OF ALL OPHYSICAL LOGS DIRECTLY TO:	(Sign Name) A.
	R, A, Pryce
ST VIRGINIA GEOLOGICAL AND	P. O. Box 8
NOMIC SURVEY O. BOX 879	ddress Street
GANTOWN, WEST VIRGINIA 26505 Well	Operator Ravenswood City of Town
304 - 292-6331	
	West Virginia 26164
·	State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of ice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved the well operator authorized to proceed.

47-053-0221

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	DX DRILL	DEEPENF	RACTURE-STIMULATE	
DRILLING CONTRACTOR: (I	Known)	RESPONSIBLE AGENT	:	
NAME Not known at this time		NAME Robert A. Pryce		
ADDRESS		ADDRESS P. O. Box 8, Ravenswood, WV 26164		
TELEPHONE	[000]	TELEPHONE 273-5	371	
ESTIMATED DEPTH OF COMP	LETED WELL: 5000'	ROTARY X	CABLE TOOLS	
PROPOSED GEOLOGICAL FOR				
TYPE OF WELL: OIL_	GAS X CO	MBSTORAGI	E DISPOSAL	
• •	RECYCLING	G WATER FLO	OOD OTHER	
	ia.			
TENTATIVE CASING PROGRA	M:			
CASING AND TUBING	USED FOR	# # * * * **	A CONTRACTOR	
SIZE	DRILLING	LEFT IN WELL	OR SACKS - CUBIC FT.	
20 - 16				
13 - 10				
9 - 5/8 10 3/4*	200	200	Cement to surface	
8 - 5/8				
<u>;</u>	2600	2600	125 sk = 570 feet	
5 ½	F000			
3	5000	5000	125 sks = 1500 feet	
2			Perf. Top	
Liners			Perf. Bottom Perf. Top	
•			Perf. Bottom	
OF PLAT. O DRILL DEEPER OR REDRIL SUBMIT FIVE (5) COPIES (WELLS DRILLED PRIOR 1	L: OF OG - 1, SHOWING ORIGINATO TO 1929, A PERMANENT COP	AI, PERMIT NIIMBER AN	OND AND PERMANENT COPY TO PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD	
MOOI ALOO BE SORMITTE	ED.			
O FRACTURE - STIMULATE:			e e e gradie e e	
DOILD, I DICHIMITEDITI FLAT	AND ORIGINAL WELL RECO	RD.	COPIES OG - 1, PERFORMANCE	
WILLIAM I DICHE I NO	MBER, AND PERFORMANCE BO	OND.	9, FIVE COPIES OG - 1, SHOW-	
Required forms must be filed four (24) hours in advance.	l within ninety (90) days of con	npletion for bond release.	Inspector to be notified twenty-	
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· · · · · · · · · · · · · · · · · · ·				
	And the second second			
The following waiver must be hereof.	e completed by the coal operat	or if the permit is to be i	ssued within ten days of receipt	
AIVER: I the undersigned, Ager	nt for	Coal Company, Owner	or Operator of the coal under	
this lease have examine	ed and place on our mine maps	this proposed well locati	on.	
We theproviding operator has c	Coal Company have	e no objections to said we	cll being drilled at this location, 7, Chapter 22 of the West Virginia	
Code.	, >			

		Fo	or Coal Company	
			Official Title	